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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,809	10/20/2003	Robert A. DiChiara JR.	024.0019	4359
29906	7590	06/20/2005	EXAMINER	
INGRASSIA FISHER & LORENZ, P.C. 7150 E. CAMELBACK, STE. 325 SCOTTSDALE, AZ 85251			XU, LING X	
			ART UNIT	PAPER NUMBER
			1775	
DATE MAILED: 06/20/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Response to Rule 312 Communication	Application No. 10/689,809	Applicant(s) DICHARA, ROBERT A.	
	Examiner Ling X. Xu	Art Unit 1775	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

1. ☒ The amendment filed on 18 May 2005 under 37 CFR 1.312 has been considered, and has been:

a) ☒ entered.


b) ☐ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.

Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.


 Ling X. Xu
 Examiner
 Art Unit: 1775

App. NO. 10/089,809
Amendment Pursuant to 37 C.F.R. § 1.312

OK to enter

2x

6/14/05

IN THE CLAIMS

1. (Previously Amended) A ceramic tile, which comprises:
a ceramic core material having a surface;
a tough low temperature cure coating (TLTC) infiltrating the surface, the TLTC comprising a cured ceramic powder combined with a binder; and
an oxide ceramic matrix composite (CMC) covering the surface infiltrated with the TLTC, the oxide CMC comprising:
a ceramic fiber; and
a cured metal oxide ceramic material impregnating said ceramic fiber.
2. (Previously Canceled)
3. (Previously Amended) A ceramic tile according to claim 1, wherein said cured metal oxide ceramic material impregnating said ceramic fiber and said TLTC are co-cured.
4. (Previously Amended) A ceramic tile according to claim 1, wherein said ceramic core material has a coefficient of thermal expansion, and said TLTC raises said coefficient of thermal expansion of said ceramic core material.
5. (Previously Amended) A ceramic tile according to claim 1, wherein said ceramic powder comprises cordierite.
6. (Previously Amended) A ceramic tile according to claim 1, wherein said binder comprises silica sol.
7. (Previously Amended) A ceramic tile according to claim 1, wherein said TLTC infiltrates every surface of said ceramic core material, and said oxide CMC entirely surrounds said ceramic core material.